

产品规格书 DATA SHEET

Part No: MHK1373CGBCT REV.3

本产品符合 ROHS 指令有关限制有害物质的环保要求.

日期 DATE	拟制 PREPARED	审核 VERIFIED	批准 APPROVED
2019-07-22	ВОВ		JOHN

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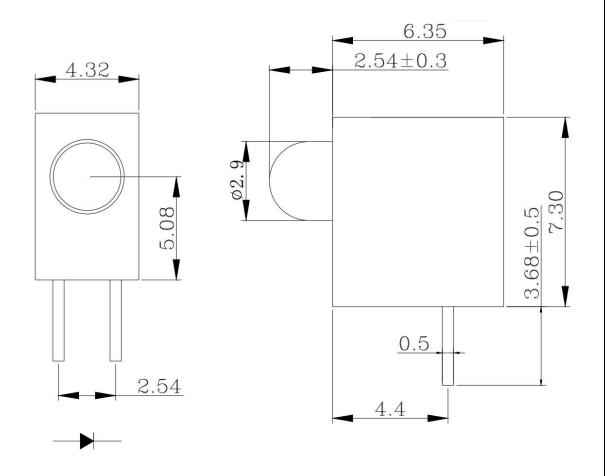
North Around Road, Guannan EDA, Lianyungang City, Jiangsu Province China.



P/N: MHK1373CGBCT

LED LAMP

产品外观尺寸 PACKAGE DIMENSIONS



注意 NOTES:

1. 所有尺寸均为 mm(英寸)

All dimensions are in millimeters. (inches)

2. 如无特殊说明,公差为 0.25mm(0.010")

Tolerance is ±0.25mm(0.010") unless otherwise specified.

3. 溢胶最大 1.5mm

Protruded resin under flange is 1.5mm(0.059 ") max.

4. 引线间距是指引线从封装中出现的位置

Lead spacing is measured where the leads emerge from the package.

5. 规格如有更改, 恕不另行通知

Specification are subject to change without notice

6. 灯具有尖锐、坚硬的尖头,可能会伤害人的眼睛或手指等,因此在搬运时请格外小心 The lamps have sharp and hard points that may injure human eyes or fingers etc., so please pay enough care in the handling

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产品特性 FEATURES

- 高可靠性和高稳定性 High intensity and reliability
- 低功耗 LOW POWER CONSUMPTION
- IC 易兼容、易装配 IC compatible, Easy assembly
- 长寿命固态可靠性 LONG LIFE SOLID STATE RELIABILITY
- 无铅产品(符合欧盟 RoHS) Pb FREE PRODUCTS(Compliant with EU's RoHS.)

产品特征 Description

- 3mm 直径封装 3mm diameter package
- 发光颜色 Emitted color:
 - 1. 黄绿光: Yellow Green
 - 2.
 - 3.
- 晶片材质 Chips materials:
 - 1. GaAlInP/GaAs
 - 2.
 - 3.
- 胶体类型 Lens Type 1.透明 Water Clear
 - 2.
 - 3.



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极限参数 Absolute Maximum Ratings(Ta=25℃)

参数	符号	据阻估 Detine	单位	
Parameter	Symbol	极限值 Rating	Unit	
单字节功耗	PAD	78	mw	
Power Dissipation Per Segment		70		
每个芯片的峰值正向电流				
Peak Forward Current Per Chip	IPF	120	mA	
(Duty=0.1,1KHZ)				
平均正向电流	IF	30	mA	
Average Forward Current(Duty=0.1,1KHZ)				
反向电压	VR	5	V	
Reverse Voltage	VIX	<u> </u>		
从 25°C 降额线性		0.4	mA/°C	
Derating Linear From 25°C	_	0.4		
工作温度	T_{OPR}	-25℃ to 85℃		
Operating Temperature Range				
储藏温度	T_{STG}	-25℃ to 85℃		
Storage Temperature Range	ISIG	-23 € 10 03		

光电特性 Optical-Electrical Characteristic(Ta=25℃)

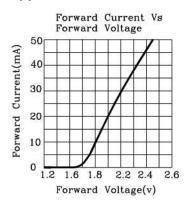
符号	参数	测试条件	最小	标准	最大	单位
Symbol	Parameter	Test Condition	Min	Тур	Max	Unit
VF	正向压降	IF = 20mA	-	2.0	2.6	V
	Forward Voltage	IF = ZUITA				
IR	反向漏电流	VR=5V	-	-	10	uA
	Reverse Current	VK-5V				
λD	主波长	IF = 20mA	-	569	-	nm
	Dominant Wavelength	IF - ZUITA				
Δλ S	半波宽	IF = 20mA	-	30	-	nm
	Spectral Line Half—Width	IF - ZUITA				
201/2	半视角		-	50	-	deg
	Half Intensity Angle	IF = 20mA				
lv		IF = 20mA		150		
		11 - ZUIIIA	-	130		mcd
	Luminous Intensity	IF = 10mA	20	60		
·	<u> </u>					

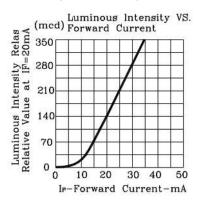


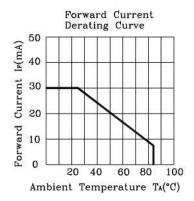
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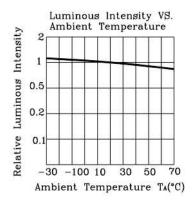
LED LAMP

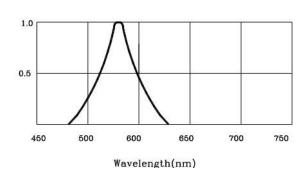
光电特性图 Typical Electrical Characteristic Curves(Ta=25℃)

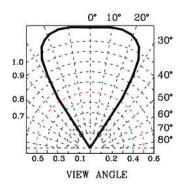












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标签 Label

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P/N:MHK1373CGBCT

L/N: xxxxxxxxx

QTY:xxxx pcs

DATA: xxxxx

● P/N: 型号 Part Number

● LOT No: 生产单号 Lot Number

● QTY: 数量 Packing Quantity

● DATA:生产日期 Data

● IV:亮度 Luminous Intensity(参考 Reference)

● VF:电压 Forward Voltage(参考 Reference)



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焊接 SOLDERING

方法	焊接条件	备注
METHOD	SOLDERING CONDITIONS	REMARK
浸焊 DIP SOLDERING	沐浴温度: 260℃ Bath temperature: 260℃ 浸润时间:5秒/1次 Immersion time: within 5 sec/1 time	焊接点不要在距封装 3mm 以内 Solder no closer than 3mm from the base of the package 建议使用树脂助焊剂 Using soldering flux," RESIN FLUX" is recommended.
	烙铁功率要小于 30W	焊接时烙铁头请勿碰到 PIN
烙铁焊 SOLDERING IRON	Soldering iron: 30W or smaller	During soldering, take care not to press
	烙铁头温度小于:300℃	the tip of iron against the PIN
	Temperature at tip of iron: 300 ℃ or lower	(阻止热量直接传到 PIN 上.)
	焊接时间:3秒	(To prevent heat from being transferred
	Soldering time: within 3 sec	directly to the PIN.)



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储藏 STORAGE

- 1. LED 在出厂后可在温度 30 度以下,湿度 70%以下的环境内保存 3 个月时间 The LED should be stored at 30℃ or less and 70% RH or less after being shipped from MH and the storage life limits are 3 months.
- 2. 美华的 LED 支架是铁合金镀锡的,表面的镀层会被腐蚀性的气体侵蚀,因此不要将它保存在可能导致支架氧化,失去光泽或变色的环境,这些腐蚀可能会导致焊接困难,建议尽快使用 Meihua's LED lead frames are comprised of a stannum plated iron alloy. The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions which may cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the LED be used as soon as possible.
- 3. 请避免保存在温度变化明显,尤其是高湿度的地方 Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

使用注意事项 Application Restrictions

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4. 静电放电(静电放电) ESD (Electrostatic Discharge

产品敏感的静电或冲击电压。当使用产品时静电放电会损坏模具及其可靠性。对静电放电的措施强烈推荐: The products are sensitive to static electricity or surge voltage. ESD can damage a die and its reliability. When handling the products, the following measures against electrostatic discharge are strongly recommended:

消除电荷 Eliminating the charge

接地的手环,防静电鞋,衣服和地板 Grounded wrist strap, ESD footwear, clothes, and floors

接地的工作站设备和工具 Grounded workstation equipment and tools 导电材料的防静电工作台/架子 ESD table/shelf mat made of conductive materials 正确的接地用于所有装置、设备和机器生产过程所必须。在产品设计时应考虑冲击保护。Proper grounding is required for all devices, equipment, and machinery used in product assembly.Surge protection should be considered when designing of commercial products.

如果工具或设备含有绝缘如玻璃或塑料材料,需要做下列静电放电预防措施: If tools or equipment contain insulating materials such as glass or plastic, the following measures against electrostatic discharge are strongly recommended:

用导电材料耗散静电电荷 Dissipating static charge with conductive materials 保持环境的湿度 Preventing charge generation with moisture

使用离子风扇中和静电 Neutralizing the charge with ionizers

5. 发光二极管正向电流方向使用,驱动电路的设计必须使 LED 在关闭的状态下不经受正向或逆向电压,如果反向电压不断应用于发光二极管,它可以导致 LED 损坏 The LEDs should be operated with forward bias. The driving circuit must be designed so that the LEDs are not subjected to forward or reverse voltage while it is off. If reverse voltage is continuously applied to the LEDs, it may cause migration resulting in LED damage.